

09/771,043

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 08:54:34 ON 11 JAN 2005

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'STNGUIDE' ENTERED AT 08:54:37 ON 11 JAN 2005

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	0.27

FILE 'HOME' ENTERED AT 08:54:46 ON 11 JAN 2005

=> file biosis medline caplus wpids uspatfull

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.48

FILE 'BIOSIS' ENTERED AT 08:55:24 ON 11 JAN 2005

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FILE 'CAPLUS' ENTERED AT 08:55:24 ON 11 JAN 2005

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FILE 'USPATFULL' ENTERED AT 08:55:24 ON 11 JAN 2005

CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

*** YOU HAVE NEW MAIL ***

=> s nucleic acid? (5a) immobil?(5a) (substrate? or support?)

3 FILES SEARCHED...

4 FILES SEARCHED...

L1 4506 NUCLEIC ACID? (5A) IMMOBIL?(5A) (SUBSTRATE? OR SUPPORT?)

=> s l1 and unsatur?

L2 146 L1 AND UNSATUR?

=> s l2 and (thymine or uracil)

L3 82 L2 AND (THYMINE OR URACIL)

=> s l3 and 3 (5a) 100

L4 41 L3 AND 3 (5A) 100

=> s 14 and electromagnet?
L5 8 L4 AND ELECTROMAGNET?

=> dup rem
ENTER L# LIST OR (END):15
PROCESSING COMPLETED FOR L5
L6 8 DUP REM L5 (0 DUPLICATES REMOVED)

=> d 16 bib abs 1-8

L6 ANSWER 1 OF 8 USPATFULL on STN
AN 2004:280265 USPATFULL
TI Oligonucleotides useful for detecting and analyzing nucleic acids of interest
IN Kauppinen, Sakari, Smorum, DENMARK
Alsbo, Carsten, Koge, DENMARK
Nielsen, Peter S., Birkerod, DENMARK
Jeffares, Daniel C., Kobenhavn N, DENMARK
Mourier, Tobias, Kobenhavn N, DENMARK
Mork, Soren, Valby, DENMARK
Arctander, Peter, Askeby, DENMARK
Tommerup, Niels, Albertslund, DENMARK
Tolstrup, Niels, Klampenborg, DENMARK
Vissing, Henrik, Virum, DENMARK
PI US 2004219565 A1 20041104
AI US 2003-690487 A1 20031021 (10)
PRAI DK 2003-752 20030519
US 2002-420278P 20021021 (60)
DT Utility
FS APPLICATION
LREP CLARK & ELBING LLP, 101 FEDERAL STREET, BOSTON, MA, 02110
CLMN Number of Claims: 184
ECL Exemplary Claim: 1
DRWN 48 Drawing Page(s)
LN.CNT 14594
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention features improved nucleic acids and methods for expression profiling of mRNAs, identifying and profiling of particular mRNA splice variants, and detecting mutations, deletions, or duplications of particular exons or other splice variants, e.g., alterations associated with a disease such as cancer, in a nucleic acid sample, e.g., a biological sample or a patient sample.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 2 OF 8 USPATFULL on STN
AN 2003:318633 USPATFULL
TI Novel LNA compositions and uses thereof
IN Wengel, Jesper, Odense S, DENMARK
Kauppinen, Sakari, Smoerum, DENMARK
PI US 2003224377 A1 20031204
AI US 2002-235683 A1 20020904 (10)
PRAI US 2001-317034P 20010904 (60)
US 2001-323967P 20010922 (60)
DT Utility
FS APPLICATION
LREP CLARK & ELBING LLP, 101 FEDERAL STREET, BOSTON, MA, 02110
CLMN Number of Claims: 43
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 3757

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Modified LNA units are provided that comprises unique base groups. Desirable nucleobase and nucleosidic base substitutions can mediate universal hybridization when incorporated into nucleic acid strands. The novel LNA compounds may be used in a wide variety of applications, such as PCR primers, sequencing, synthesis of antisense oligonucleotides, diagnostics and the like.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 3 OF 8 USPATFULL on STN

AN 2003:112863 USPATFULL

TI Methods and compositions for enhancing sensitivity in the analysis of biological-based assays

IN Van Ness, Jeffrey, Seattle, WA, UNITED STATES

Tabone, John C., Bothell, CA, UNITED STATES

Howbert, J. Jeffry, Bellevue, WA, UNITED STATES

Mulligan, John T., Seattle, WA, UNITED STATES

PA QIAGEN Genomics, Inc., Bothell, WA (U.S. corporation)

PI US 2003077595 A1 20030424

US 6815212 B2 20041109

AI US 2001-467 A1 20011024 (10)

RLI Continuation of Ser. No. US 1999-457048, filed on 7 Dec 1999, ABANDONED

Continuation of Ser. No. US 1997-898501, filed on 22 Jul 1997, GRANTED,

Pat. No. US 6027890 Continuation-in-part of Ser. No. US 1997-787521,

filed on 22 Jan 1997, ABANDONED

PRAI US 1996-10436P 19960123 (60)

US 1996-15402P 19960321 (60)

DT Utility

FS APPLICATION

LREP SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300, SEATTLE, WA, 98104-7092

CLMN Number of Claims: 61

ECL Exemplary Claim: 1

DRWN 36 Drawing Page(s)

LN.CNT 5954

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods are provided for detecting the binding of a first member to a second member of a ligand pair, comprising the steps of (a) combining a set of first tagged members with a biological sample which may contain one or more second members, under conditions, and for a time sufficient to permit binding of a first member to a second member, wherein said tag is correlative with a particular first member and detectable by non-fluorescent spectrometry, or potentiometry, (b) separating bound first and second members from unbound members, (c) cleaving the tag from the tagged first member, and (d) detecting the tag by non-fluorescent spectrometry, or potentiometry, and therefrom detecting the binding of the first member to the second member .

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 4 OF 8 USPATFULL on STN

AN 2002:32175 USPATFULL

TI Immobilized nucleic acid and method for detecting nucleic acid

IN Kimura, Naoki, Chiba-shi, JAPAN

Ichihara, Tatsuo, Chiba-shi, JAPAN

Moriya, Shogo, Chiba-shi, JAPAN

PI US 2002018996 A1 20020214

AI US 2001-771043 A1 20010126 (9)

PRAI JP 2000-21843 20000126

DT Utility

FS APPLICATION

LREP KNOBBE MARTENS OLSON & BEAR LLP, 620 NEWPORT CENTER DRIVE, SIXTEENTH
FLOOR, NEWPORT BEACH, CA, 92660
CLMN Number of Claims: 12
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 774

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A nucleic acid to be immobilized and used for hybridization of nucleic acids using an immobilized nucleic acid, which has a polymer comprising a compound having an **unsaturated** bond, said polymer being bonded to the 3' end or 5' end or both ends of the **nucleic acid**; a **nucleic acid-immobilized substrate** comprising a **substrate** for **immobilizing a nucleic acid** and the polymer-having **nucleic acid immobilized on the substrate**; and a method for detecting a nucleic acid by hybridization using an immobilized nucleic acid, which comprises using the **nucleic acid-immobilized substrate**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 5 OF 8 USPATFULL on STN
AN 2002:209300 USPATFULL
TI Use of LNA in mass spectrometry
IN Simmons, Adrian, Amersham, UNITED KINGDOM
Smith, Clifford, Tring, UNITED KINGDOM
PA Exiqon A/S, Vedback, DENMARK (non-U.S. corporation)
PI US 6436640 B1 20020820
AI US 2000-528705 20000318 (9)
PRAI DK 1999-381 19990318
US 1999-127357P 19990401 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Horlick, Kenneth R.
LREP Corless, Peter F., Rees, Dianne M., Edwards & Angell, LLP
CLMN Number of Claims: 17
ECL Exemplary Claim: 1
DRWN 0 Drawing Figure(s); 0 Drawing Page(s)
LN.CNT 2507

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB DNA and RNA diagnostics based on mass spectrometry, e.g. Matrix-Assisted Laser Desorption/Ionisation Time-of-Flight (MALDI-TOF) mass spectrometry, Electrospray (ES) mass spectrometry, Ion Cyclotron Resonance (ICR) mass spectrometry, Fourier Transform mass spectrometry, or combinations thereof, where fully or partially LNA modified DNA probes are used in order to enhance stability and resolution. The invention in particular relates to a process for detecting a target nucleic acid sequence of a nucleic acid molecule or for detecting a mutation in a nucleic acid sequence of a nucleic acid molecule, wherein (a) the nucleic acid molecule or (b) a part of the nucleic acid molecule or (c) an oligonucleotide complementary to the sequence or at least a sub-sequence of the nucleic acid molecule is analysed by mass spectrometry in order to obtain direct or indirect information about the target nucleic acid sequence or mutation, and wherein the process involves the hybridisation of an LNA modified oligonucleotide to the nucleic acid molecule.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 6 OF 8 USPATFULL on STN
AN 2000:21384 USPATFULL

TI Methods and compositions for enhancing sensitivity in the analysis of
biological-based assays
IN Ness, Jeffrey Van, Seattle, WA, United States
Tabone, John C., Bothell, WA, United States
Howbert, J. Jeffry, Bellevue, WA, United States
Mulligan, John T., Seattle, WA, United States
PA Rapigene, Inc., Bothell, WA, United States (U.S. corporation)
PI US 6027890 20000222
AI US 1997-898501 19970722 (8)
RLI Continuation-in-part of Ser. No. US 1997-787521, filed on 22 Jan 1997,
now abandoned
PRAI US 1996-10436P 19960123 (60)
US 1996-15402P 19960321 (60)
DT Utility
FS Granted
EXNAM Primary Examiner: Houtteman, Scott W.
LREP Seed and Berry LLP
CLMN Number of Claims: 72
ECL Exemplary Claim: 1
DRWN 19 Drawing Figure(s); 19 Drawing Page(s)
LN.CNT 6333

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods are provided for detecting the binding of a first member to a
second member of a ligand pair, comprising the steps of (a) combining a
set of first tagged members with a biological sample which may contain
one or more second members, under conditions, and for a time sufficient
to permit binding of a first member to a second member, wherein said tag
is correlative with a particular first member and detectable by
non-fluorescent spectrometry, or potentiometry, (b) separating bound
first and second members from unbound members, (c) cleaving the tag from
the tagged first member, and (d) detecting the tag by non-fluorescent
spectrometry, or potentiometry, and therefrom detecting the binding of
the first member to the second member.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 7 OF 8 USPATFULL on STN
AN 1999:40146 USPATFULL
TI Method for nucleic acid amplification and detection using adhered probes
IN Sutton, Richard Calvin, Rochester, NY, United States
Ponticello, Ignazio Salvatore, Pittsford, NY, United States
Cummins, Thomas Joseph, Rochester, NY, United States
Zander, Dennis Roland, Penfield, NY, United States
Donish, William Harold, Rochester, NY, United States
Chen, Paul Hong-Dze, Oak Brook, IL, United States
Findlay, John Bruce, Rochester, NY, United States
PA Johnson & Johnson Clinical Diagnostics, Inc., Rochester, NY, United
States (U.S. corporation)
PI US 5888723 19990330
AI US 1992-980512 19921120 (7)
RLI Continuation-in-part of Ser. No. US 1992-837772, filed on 18 Feb 1992,
now patented, Pat. No. US 5380489
DT Utility
FS Granted
EXNAM Primary Examiner: Myers, Carla J.
CLMN Number of Claims: 24
ECL Exemplary Claim: 1
DRWN 1 Drawing Figure(s); 1 Drawing Page(s)
LN.CNT 1641

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Nucleic acids can be amplified and detected using an element which has a
sealable support on which is disposed a nucleic acid reagent

composition. The composition is a mixture of a nucleic acid reagent composed of polymeric particles to which an oligonucleotide is covalently attached. The particles are prepared from a first polymer having a glass transition temperature of at least about 70° C. and have an average diameter of from about 0.1 to about 3 micrometers. The reagent is adhered to the support using a water insoluble adhesive comprising a second polymer which has a glass transition temperature which is at least about 30° C. less than the glass transition temperature of the first polymer. The adhesive is present in the composition at from about 1 to about 20 dry weight percent. The method provides high sensitivity and low background in the assay of nucleic acids, preferably using polymerase chain reaction.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 8 OF 8 USPATFULL on STN
AN 95:3610 USPATFULL
TI Element and method for nucleic acid amplification and detection using adhered probes
IN Sutton, Richard C., Rochester, NY, United States
Ponticello, Ignazio S., Pittsford, NY, United States
Cummins, Thomas J., Rochester, NY, United States
Zander, Dennis R., Penfield, NY, United States
Donish, William H., Rochester, NY, United States
PA Eastman Kodak Company, Rochester, NY, United States (U.S. corporation)
PI US 5380489 19950110
AI US 1992-837772 19920218 (7)
DT Utility
FS Granted
EXNAM Primary Examiner: Yarbrough, Amelia Burgess
LREP Tucker, James L.
CLMN Number of Claims: 26
ECL Exemplary Claim: 1
DRWN 1 Drawing Figure(s); 1 Drawing Page(s)
LN.CNT 1422

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An element has been prepared which is useful for the detection of nucleic acids in various formats. The element has a sealable support on which is disposed a nucleic acid reagent composition. The composition is a mixture of a nucleic acid reagent composed of polymeric particles to which an oligonucleotide is covalently attached. The particles are prepared from a first polymer having a glass transition temperature of at least about 70° C. and have an average diameter of from about 0.1 to about 3 micrometers. The reagent is adhered to the support using a water insoluble adhesive comprising a second polymer which has a glass transition temperature which is at least about 30° C. less than the glass transition temperature of the first polymer. The adhesive is present in the composition at from about 1 to about 20 weight percent. This element provides high sensitivity and low background in hybridization and other nucleic acid assays.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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=> d his

(FILE 'HOME' ENTERED AT 08:54:34 ON 11 JAN 2005)

FILE 'STNGUIDE' ENTERED AT 08:54:37 ON 11 JAN 2005

FILE 'HOME' ENTERED AT 08:54:46 ON 11 JAN 2005

FILE 'BIOSIS, MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 08:55:24 ON 11 JAN 2005

L1 4506 S NUCLEIC ACID? (5A) IMMOBIL?(5A) (SUBSTRATE? OR SUPPORT?)
L2 146 S L1 AND UNSATUR?
L3 82 S L2 AND (THYMINE OR URACIL)
L4 41 S L3 AND 3 (5A) 100
L5 8 S L4 AND ELECTROMAGNET?
L6 8 DUP REM L5 (0 DUPLICATES REMOVED)

=> s l4 and irradiat?

L7 24 L4 AND IRRADIAT?

=> s l7 not l6

L8 18 L7 NOT L6

=> dup rem l8

PROCESSING COMPLETED FOR L8

L9 18 DUP REM L8 (0 DUPLICATES REMOVED)

=> d l9 bib abs 1-18

L9 ANSWER 1 OF 18 USPATFULL on STN
AN 2004:260559 USPATFULL
TI Chemical amplification for the synthesis of patterned arrays
IN Beecher, Jody E., Mountain View, CA, UNITED STATES
Goldberg, Martin J., San Jose, CA, UNITED STATES
McGall, Glenn H., Mountain View, CA, UNITED STATES
PA Affymetrix, Inc., Santa Clara, CA (U.S. corporation)
PI US 2004203056 A1 20041014
AI US 2004-840841 A1 20040507 (10)
RLI Continuation of Ser. No. US 2000-578282, filed on 25 May 2000, GRANTED,
Pat. No. US 6770436 Continuation of Ser. No. US 1997-969227, filed on 13
Nov 1997, GRANTED, Pat. No. US 6083697
PRAI US 1996-30826P 19961114 (60)
DT Utility
FS APPLICATION
LREP BANNER & WITCOFF LTD., ATTORNEYS FOR AFFYMETRIX, 1001 G STREET, N.W.,
ELEVENTH FLOOR, WASHINGTON, DC, 20001-4597
CLMN Number of Claims: 24
ECL Exemplary Claim: CLM-01-16
DRWN 7 Drawing Page(s)
LN.CNT 1246
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Radiation-activated catalysts (RACs), autocatalytic reactions, and
protective groups are employed to achieve a. highly sensitive, high
resolution, radiation directed combinatorial synthesis of pattern arrays
of diverse polymers. When **irradiated**, RACs produce catalysts
that can react with enhancers, such as those involved in autocatalytic
reactions. The autocatalytic reactions produce at least one product that
removes protecting groups from synthesis intermediates. This invention
has a wide variety of applications and is particularly useful for the
solid phase combinatorial synthesis of polymers.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 2 OF 18 USPATFULL on STN
AN 2004:115913 USPATFULL
TI Nucleic acids compositions conferring dwarfing phenotype
IN Oriedo, J. Vincent B., Midland, MI, UNITED STATES
McCrery, David, Lake Jackson, TX, UNITED STATES
Savickas, Philip, Franklin, MA, UNITED STATES
Miller, Barbara A., Midland, MI, UNITED STATES
Pell, Randy, Midland, MI, UNITED STATES
Larrinua, Ignacio M., Indianapolis, IN, UNITED STATES
Weglarz, Ted, Noblesville, IN, UNITED STATES
Gachotte, Daniel, Indianapolis, IN, UNITED STATES
Reddy, Avutu S., Carmel, IN, UNITED STATES
Ruegger, Max, Indianapolis, IN, UNITED STATES
Blakeslee, Beth, Fishers, IN, UNITED STATES
Pogue, Gregory P., Vacaville, CA, UNITED STATES
Crosley, Rodney, Indianapolis, IN, UNITED STATES
Zheng, Wenjin, San Diego, CA, UNITED STATES
Della-Cioppa, Guy R., Vacaville, CA, UNITED STATES
Gershon, Wolfe D.W., Davis, CA, UNITED STATES
PI US 2004088762 A1 20040506
AI US 2003-333184 A1 20031010 (10)
WO 2001-US23120 20010720
DT Utility
FS APPLICATION
LREP THE DOW CHEMICAL COMPANY, INTELLECTUAL PROPERTY SECTION, P. O. BOX 1967,
MIDLAND, MI, 48641-1967
CLMN Number of Claims: 29
ECL Exemplary Claim: 1
DRWN 255 Drawing Page(s)
LN.CNT 5684

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to putative known and unknown deoxyribonucleic acid (DNA) and amino acid sequences identified in one or more metabolic pathways that lead to dwarfism and stunting in plants and the use of these sequences in agriculture to create dwarf varieties of any plant species. This invention also relates to nucleic acids sequences and polypeptides that produce altered metabolism phenotypes in plants.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 3 OF 18 USPATFULL on STN
AN 2004:101228 USPATFULL
TI Whole cell engineering by mutagenizing a substantial portion of a starting genome, combining mutations, and optionally repeating
IN Short, Jay M., Rancho Santa Fe, CA, UNITED STATES
PI US 2004077090 A1 20040422
AI US 2003-383798 A1 20030306 (10)
RLI Continuation of Ser. No. US 2000-677584, filed on 30 Sep 2000, ABANDONED
Continuation-in-part of Ser. No. US 2000-594459, filed on 14 Jun 2000, GRANTED, Pat. No. US 6605449 Continuation-in-part of Ser. No. US 2000-522289, filed on 9 Mar 2000, GRANTED, Pat. No. US 6358709
Continuation-in-part of Ser. No. US 2000-498557, filed on 4 Feb 2000, PENDING Continuation-in-part of Ser. No. US 2000-495052, filed on 31 Jan 2000, GRANTED, Pat. No. US 6479258
PRAI US 1999-156815P 19990929 (60)
DT Utility
FS APPLICATION
LREP HALE AND DORR LLP, 300 PARK AVENUE, NEW YORK, NY, 10022
CLMN Number of Claims: 22

ECL Exemplary Claim: 1
DRWN 28 Drawing Page(s)
LN.CNT 37121

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An invention comprising cellular transformation, directed evolution, and screening methods for creating novel transgenic organisms having desirable properties. Thus in one aspect, this invention relates to a method of generating a transgenic organism, such as a microbe or a plant, having a plurality of traits that are differentially activatable. Also, a method of retooling genes and gene pathways by the introduction of regulatory sequences, such as promoters, that are operable in an intended host, thus conferring operability to a novel gene pathway when it is introduced into an intended host. For example a novel man-made gene pathway, generated based on microbially-derived progenitor templates, that is operable in a plant cell. Furthermore, a method of generating novel host organisms having increased expression of desirable traits, recombinant genes, and gene products.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 4 OF 18 USPATFULL on STN
AN 2004:192594 USPATFULL
TI Chemical amplification for the synthesis of patterned arrays
IN Beecher, Jody E., Mountain View, CA, United States
Goldberg, Martin J., San Jose, CA, United States
McGall, Glenn H., Mountain View, CA, United States
PA Affymetrix, Inc., Santa Clara, CA, United States (U.S. corporation)
PI US 6770436 B1 20040803
AI US 2000-578282 20000525 (9)
RLI Continuation of Ser. No. US 1997-969227, filed on 13 Nov 1997, now patented, Pat. No. US 6083697
PRAI US 1996-30826P 19961114 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Celsa, Bennett; Assistant Examiner: Epperson, Jon D.
LREP Banner & Witcoff, Ltd.
CLMN Number of Claims: 21
ECL Exemplary Claim: 1
DRWN 8 Drawing Figure(s); 7 Drawing Page(s)
LN.CNT 1301

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Radiation-activated catalysts (RACs), autocatalytic reactions, and protective groups are employed to achieve a highly sensitive, high resolution, radiation directed combinatorial synthesis of pattern arrays of diverse polymers. When **irradiated**, RACs produce catalysts that can react with enhancers, such as those involved in autocatalytic reactions. The autocatalytic reactions produce at least one product that removes protecting groups from synthesis intermediates. This invention has a wide variety of applications and is particularly useful for the solid phase combinatorial synthesis of polymers.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 5 OF 18 USPATFULL on STN
AN 2003:294415 USPATFULL
TI Human enzyme molecules
IN Tang, Y. Tom, San Jose, CA, UNITED STATES
Lu, Dyung Aina M., San Jose, CA, UNITED STATES
Bandman, Olga, Mountain View, CA, UNITED STATES
Yue, Henry, Sunnyvale, CA, UNITED STATES
Azimzai, Yalda, Castro Valley, CA, UNITED STATES
Burford, Neil, Durham, CT, UNITED STATES

Lal, Preeti, Santa Clara, CA, UNITED STATES
Baughn, Mariah R., San Leandro, CA, UNITED STATES
PI US 2003207430 A1 20031106
AI US 2002-220381 A1 20020828 (10)
WO 2001-US6806 20010301
DT Utility
FS APPLICATION
LREP Incyte Genomics Inc, Legal Department, 3160 Porter Drive, Palo Alto, CA, 94304
CLMN Number of Claims: 131
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 8111

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides human enzyme molecules (HEM) and polynucleotides which identify and encode HEM. The invention also provides expression vectors, host cells, antibodies, agonists, and antagonists. The invention also provides methods for diagnosing, treating, or preventing disorders associated with aberrant expression of HEM.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 6 OF 18 USPATFULL on STN
AN 2003:219631 USPATFULL
TI Full-length human cDNAs encoding potentially secreted proteins
IN Dumas Milne Edwards, Jean-Baptiste, Paris, FRANCE
Bougueleret, Lydie, Petit Lancy, SWITZERLAND
Jobert, Severin, Paris, FRANCE
PI US 2003152921 A1 20030814
AI US 2001-876997 A1 20010608 (9)
RLI Continuation-in-part of Ser. No. US 2000-731872, filed on 7 Dec 2000, PENDING
PRAI US 1999-169629P 19991208 (60)
US 2000-187470P 20000306 (60)
DT Utility
FS APPLICATION
LREP Frank C. Eisenschenk, Ph.D., SALIWANCHIK, LLOYD & SALIWANCHIK, 2421 N.W. 41 STREET, SUITE A-1, GAINESVILLE, FL, 32606-6669
CLMN Number of Claims: 22
ECL Exemplary Claim: 1
DRWN 5 Drawing Page(s)
LN.CNT 27600

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention concerns GENSET polynucleotides and polypeptides. Such GENSET products may be used as reagents in forensic analyses, as chromosome markers, as tissue/cell/organelle-specific markers, in the production of expression vectors. In addition, they may be used in screening and diagnosis assays for abnormal GENSET expression and/or biological activity and for screening compounds that may be used in the treatment of GENSET-related disorders.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 7 OF 18 USPATFULL on STN
AN 2003:213852 USPATFULL
TI Epoxide hydrolases, nucleic acids encoding them and methods for making and using them
IN Zhao, Lishan, Carlsbad, CA, UNITED STATES
Mathur, Eric J., Carlsbad, CA, UNITED STATES
Weiner, David, Del Mar, CA, UNITED STATES
Richardson, Toby, San Diego, CA, UNITED STATES
Milan, Aileen, San Diego, CA, UNITED STATES

Burk, Mark J., San Diego, CA, UNITED STATES
Han, Bin, San Diego, CA, UNITED STATES
Short, Jay M., Rancho Santa Fe, CA, UNITED STATES
PI US 2003148490 A1 20030807
AI US 2002-272490 A1 20021010 (10)
RLI Continuation-in-part of Ser. No. US 2002-214473, filed on 5 Aug 2002,
PENDING
PRAI US 2001-309478P 20010803 (60)
US 2002-393978P 20020703 (60)
DT Utility
FS APPLICATION
LREP FISH & RICHARDSON, PC, 4350 LA JOLLA VILLAGE DRIVE, SUITE 500, SAN
DIEGO, CA, 92122
CLMN Number of Claims: 201
ECL Exemplary Claim: 1
DRWN 19 Drawing Page(s)
LN.CNT 16377

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention is directed to polypeptides having epoxide hydrolase activity, polynucleotides encoding the polypeptides, antibodies that bind to these polypeptides, and methods for making and using these polynucleotides and polypeptides. The epoxide hydrolases are used to catalyze the hydrolysis of epoxides and arene oxides to their corresponding diols.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 8 OF 18 USPATFULL on STN
AN 2003:213805 USPATFULL
TI Epoxide hydrolases, nucleic acids encoding them and methods of making and using them
IN Zhao, Lishan, Carlsbad, CA, UNITED STATES
Mathur, Eric J., Carlsbad, CA, UNITED STATES
Weiner, David, Del Mar, CA, UNITED STATES
Richardson, Toby, San Diego, CA, UNITED STATES
Milan, Aileen, San Diego, CA, UNITED STATES
Burk, Mark J., San Diego, CA, UNITED STATES
Han, Bin, San Diego, CA, UNITED STATES
Short, Jay M., Rancho Santa Fe, CA, UNITED STATES
PI US 2003148443 A1 20030807
AI US 2002-214473 A1 20020805 (10)
PRAI US 2001-309478P 20010803 (60)
US 2002-393378P 20020703 (60)
DT Utility
FS APPLICATION
LREP FISH & RICHARDSON, PC, 4350 LA JOLLA VILLAGE DRIVE, SUITE 500, SAN
DIEGO, CA, 92122
CLMN Number of Claims: 197
ECL Exemplary Claim: 1
DRWN 19 Drawing Page(s)
LN.CNT 15533

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention is directed to polypeptides having epoxide hydrolase activity, polynucleotides encoding the polypeptides, antibodies that bind to these polypeptides, and methods for making and using these polynucleotides and polypeptides. The epoxide hydrolases are used to catalyze the hydrolysis of epoxides and arene oxides to their corresponding diols.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 9 OF 18 USPATFULL on STN

AN 2003:165914 USPATFULL
TI Aminooxy functionalized oligomers, oligomer arrays and methods of using them
IN Manoharan, Muthiah, Carlsbad, CA, UNITED STATES
Lonnberg, Harri, Turku, FINLAND
Salo, Harri, Turku, FINLAND
Virta, Pasi, Leito, FINLAND
PI US 2003113769 A1 20030619
US 6825331 B2 20041130
AI US 2002-234764 A1 20020903 (10)
RLI Division of Ser. No. US 1999-344260, filed on 25 Jun 1999, PENDING
Continuation-in-part of Ser. No. US 1998-16520, filed on 30 Jan 1998,
GRANTED, Pat. No. US 6127533
PRAI US 1997-37143P 19970214 (60)
DT Utility
FS APPLICATION
LREP WOODCOCK WASHBURN LLP, ONE LIBERTY PLACE, 46TH FLOOR, 1650 MARKET
STREET, PHILADELPHIA, PA, 19103
CLMN Number of Claims: 44
ECL Exemplary Claim: 1
DRWN 15 Drawing Page(s)
LN.CNT 2017
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides oligomers which are specifically
hybridizable with a selected sequence of RNA or DNA wherein at least one
of the nucleoside moieties of the oligomer is modified to include an
aminooxy linkage. These oligomers are useful for diagnostic, therapeutic
and investigative purposes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 10 OF 18 USPATFULL on STN
AN 2003:37544 USPATFULL
TI Salicylamide-lanthanide complexes for use as luminescent markers
IN Raymond, Kenneth N., Berkeley, CA, UNITED STATES
Petoud, Stephane, Berkeley, CA, UNITED STATES
Cohen, Seth, Boston, MA, UNITED STATES
Xu, Jide, Berkeley, CA, UNITED STATES
PA The Regents of the University of California, Oakland, CA, UNITED STATES
(U.S. corporation)
PI US 2003027189 A1 20030206
AI US 2002-165818 A1 20020607 (10)
RLI Division of Ser. No. US 2000-507599, filed on 18 Feb 2000, GRANTED, Pat.
No. US 6406297
PRAI WO 2000-US4284 20000218
US 1999-120600P 19990218 (60)
DT Utility
FS APPLICATION
LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
FLOOR, SAN FRANCISCO, CA, 94111-3834
CLMN Number of Claims: 112
ECL Exemplary Claim: 1
DRWN 12 Drawing Page(s)
LN.CNT 3616
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides luminescent lanthanide metal chelates
comprising a metal ion of the lanthanide series and a complexing agent
comprising at least one salicylamidyl moiety. Also provided are probes
incorporating the salicylamidyl ligands of the invention and methods
utilizing the ligands of the invention and probes comprising the ligands
of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 11 OF 18 USPATFULL on STN
AN 2003:155720 USPATFULL
TI Aminooxy functionalized oligomers
IN Manoharan, Muthiah, Carlsbad, CA, United States
Lonnberg, Harri, Turku, FINLAND
Salo, Harri, Turku, FINLAND
Virta, Pasi, Leito, FINLAND
PA ISIS Pharmaceuticals, Inc., Carlsbad, CA, United States (U.S.
corporation)
PI US 6576752 B1 20030610
AI US 1999-344260 19990625 (9)
RLI Continuation-in-part of Ser. No. US 1998-16520, filed on 30 Jan 1998,
now patented, Pat. No. US 6127533
PRAI US 1997-37143P 19970214 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Richter, Johann; Assistant Examiner: Crane, L. E.
LREP Woodcock Washburn LLP
CLMN Number of Claims: 18
ECL Exemplary Claim: 1
DRWN 15 Drawing Figure(s); 15 Drawing Page(s)
LN.CNT 2224

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides oligomers which are specifically
hybridizable with a selected sequence of RNA or DNA wherein at least one
of the nucleoside moieties of the oligomer is modified to include an
aminooxy linkage. These oligomers are useful for diagnostic, therapeutic
and investigative purposes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 12 OF 18 USPATFULL on STN
AN 2002:330424 USPATFULL
TI Phthalamide lanthanide complexes for use as luminescent markers
IN Raymond, Kenneth N., Berkeley, CA, UNITED STATES
Petoud, Stephane, Berkeley, CA, UNITED STATES
Cohen, Seth, Boston, MA, UNITED STATES
Xu, Jide, Berkeley, CA, UNITED STATES
PI US 2002188111 A1 20021212
US 6515113 B2 20030204
AI US 2000-507630 A1 20000218 (9)
PRAI US 1999-120881P 19990218 (60)
DT Utility
FS APPLICATION
LREP Jeffry S Mann, Townsend And Townsend And Crew LLP, Two Embarcadero
Center 8th Floor, San Francisco, CA, 94111-3834
CLMN Number of Claims: 123
ECL Exemplary Claim: 1
DRWN 23 Drawing Page(s)
LN.CNT 4409

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides luminescent lanthanide metal chelates
comprising a metal ion of the lanthanide series and a complexing agent
comprising at least one phthalamidyl moiety. Also provided are probes
incorporating the phthalamidyl ligands of the invention and methods
utilizing the ligands of the invention and probes comprising the ligands
of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 13 OF 18 USPATFULL on STN
 AN 2002:236247 USPATFULL
 TI Phthalamide-lanthanide complexes for use as luminescent markers
 IN Raymond, Kenneth N., Berkeley, CA, UNITED STATES
 Petoud, Stephane, Berkeley, CA, UNITED STATES
 Cohen, Seth M., West Lake Village, CA, UNITED STATES
 Xu, Jide, Berkeley, CA, UNITED STATES
 PA Regents of UC Licensing Associate Office of Technology Licensing,
 Berkeley, CA, UNITED STATES, 94720-1620 (U.S. corporation)
 PI US 2002128451 A1 20020912
 AI US 2001-992156 A1 20011114 (9)
 RLI Division of Ser. No. US 2000-507630, filed on 18 Feb 2000, PENDING
 PRAI WO 2000-US4258 20000218
 US 1999-120881P 19990218 (60)
 US 1999-120600P 19990218 (60)
 DT Utility
 FS APPLICATION
 LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
 FLOOR, SAN FRANCISCO, CA, 94111-3834
 CLMN Number of Claims: 123
 ECL Exemplary Claim: 1
 DRWN 23 Drawing Page(s)
 LN.CNT 4403
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB The present invention provides luminescent lanthanide metal chelates
 comprising a metal ion of the lanthanide series and a complexing agent
 comprising at least one phthalamidyl moiety. Also provided are probes
 incorporating the phthalamidyl ligands of the invention and methods
 utilizing the ligands of the invention and probes comprising the ligands
 of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 14 OF 18 USPATFULL on STN
 AN 2002:191539 USPATFULL
 TI Full-length human cDNAs encoding potentially secreted proteins
 IN Milne Edwards, Jean-Baptiste Dumas, Paris, FRANCE
 Bougueleret, Lydie, Petit Lancy, SWITZERLAND
 Jobert, Severin, Paris, FRANCE
 PI US 2002102604 A1 20020801
 AI US 2000-731872 A1 20001207 (9)
 PRAI US 1999-169629P 19991208 (60)
 US 2000-187470P 20000306 (60)
 DT Utility
 FS APPLICATION
 LREP John Lucas, Ph.D., J.D., Genset Corporation, 10665 Serrano Valley Road,
 San Diego, CA, 92121-1609
 CLMN Number of Claims: 29
 ECL Exemplary Claim: 1
 DRWN 5 Drawing Page(s)
 LN.CNT 28061
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB The invention concerns GENSET polynucleotides and polypeptides. Such
 GENSET products may be used as reagents in forensic analyses, as
 chromosome markers, as tissue/cell/organelle-specific markers, in the
 production of expression vectors. In addition, they may be used in
 screening and diagnosis assays for abnormal GENSET expression and/or
 biological activity and for screening compounds that may be used in the
 treatment of GENSET-related disorders.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 15 OF 18 USPATFULL on STN
AN 2002:143599 USPATFULL
TI Salicylamide-lanthanide complexes for use as luminescent markers
IN Raymond, Kenneth N., Berkeley, CA, United States
Petoud, Stephane, Berkeley, CA, United States
Cohen, Seth, West Lake Village, CA, United States
Xu, Jide, Berkeley, CA, United States
PA The Regents of the University of California, Oakland, CA, United States
(U.S. corporation)
PI US 6406297 B1 20020618
AI US 2000-507599 20000218 (9)
PRAI US 1999-120600P 19990218 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Riley, Jezia
LREP Townsend and Townsend and Crew LLP
CLMN Number of Claims: 5
ECL Exemplary Claim: 1
DRWN 12 Drawing Figure(s); 12 Drawing Page(s)
LN.CNT 3141
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides luminescent lanthanide metal chelates comprising a metal ion of the lanthanide series and a complexing agent comprising at least one salicylamidyl moiety. Also provided are probes incorporating the salicylamidyl ligands of the invention and methods utilizing the ligands of the invention and probes comprising the ligands of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 16 OF 18 USPATFULL on STN
AN 2000:84038 USPATFULL
TI Chemical amplification for the synthesis of patterned arrays
IN Beecher, Jody E., Mountain View, CA, United States
Goldberg, Martin J., San Jose, CA, United States
McGall, Glenn H., Mountain View, CA, United States
PA Affymetrix, Inc., Santa Clara, CA, United States (U.S. corporation)
PI US 6083697 20000704
AI US 1997-969227 19971113 (8)
PRAI US 1996-30826P 19961114 (60)
DT Utility
FS Granted
EXNAM Primary Examiner: Celsa, Bennett; Assistant Examiner: Ricigliano, Joseph W.
LREP Banner & Witcoff, Ltd.
CLMN Number of Claims: 18
ECL Exemplary Claim: 1
DRWN 8 Drawing Figure(s); 7 Drawing Page(s)
LN.CNT 1295
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Radiation-activated catalysts (RACs), autocatalytic reactions, and protective groups are employed to achieve a highly sensitive, high resolution, radiation directed combinatorial synthesis of pattern arrays of diverse polymers. When irradiated, RACs produce catalysts that can react with enhancers, such as those involved in autocatalytic reactions. The autocatalytic reactions produce at least one product that removes protecting groups from synthesis intermediates. This invention has a wide variety of applications and is particularly useful for the solid phase combinatorial synthesis of polymers.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 17 OF 18 USPATFULL on STN
AN 1999:132501 USPATFULL
TI Hybridization carrier and a process for preparing the same
IN Furuichi, Yasuhiro, Kamakura, Japan
Hikata, Mikio, Yokohama, Japan
Kuribayashi, Keiko, Yokohama, Japan
PA JSR Corporation, Tokyo, Japan (non-U.S. corporation)
PI US 5972611 19991026
AI US 1997-964448 19971104 (8)
RLI Continuation of Ser. No. US 1996-662830, filed on 12 Jun 1996, now abandoned which is a continuation of Ser. No. US 1995-437910, filed on 10 May 1995, now abandoned which is a continuation of Ser. No. US 1993-3904, filed on 13 Jan 1993, now abandoned which is a continuation of Ser. No. US 1992-888409, filed on 21 May 1992, now abandoned which is a continuation of Ser. No. US 1991-674284, filed on 21 Mar 1991, now abandoned which is a continuation of Ser. No. US 1988-288601, filed on 22 Dec 1988, now abandoned
PRAI JP 1987-329402 19871225
DT Utility
FS Granted
EXNAM Primary Examiner: Zitomer, Stephanie
LREP Oblon, Spivak, McClelland, Maier & Neustadt, P.C.
CLMN Number of Claims: 21
ECL Exemplary Claim: 1
DRWN 2 Drawing Figure(s); 1 Drawing Page(s)
LN.CNT 861
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A hybridization carrier, containing a single-stranded polynucleotide having the formula:

5'-(dN).sub.n (dT).sub.m -3',

wherein N represents adenine, guanine or cytosine; T represents thymine; n is an integer of 2 or larger; and m is an integer of 5 or larger;

the polynucleotide being immobilized by an amide bond on a surface of an organic polymers particle having a diameter of from about 0.05 μ m to about 5 μ m;

the polynucleotide being immobilized at the site of a nucleotide sequence consisting of 2 or more polynucleotide which contain a primary amino residue in the polynucleotide; and

the amide bond having been formed between the primary amino residue and a carboxyl residue on the surface of the organic polymer particle.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 18 OF 18 USPATFULL on STN
AN 94:82150 USPATFULL
TI Assay for nucleic acid sequences in an unpurified sample
IN Dattagupta, Nanibhushan, West Haven, CT, United States
Rae, Peter M. M., Hamden, CT, United States
Rabin, Daniel U., Branford, CT, United States
Huguenel, Edward D., Guilford, CT, United States
PA Miles Inc., Elkhart, IN, United States (U.S. corporation)
PI US 5348855 19940920
AI US 1991-772625 19911004 (7)
RLI Continuation of Ser. No. US 1987-24643, filed on 19 Mar 1987, now abandoned which is a continuation-in-part of Ser. No. US 1986-943006, filed on 19 Dec 1986, now abandoned which is a continuation-in-part of

Ser. No. US 1986-836378, filed on 5 Mar 1986, now abandoned
DT Utility
FS Granted
EXNAM Primary Examiner: Parr, Margaret; Assistant Examiner: Horlick, Kenneth
R.
LREP Sprung Horn Kramer & Woods
CLMN Number of Claims: 11
ECL Exemplary Claim: 1
DRWN 2 Drawing Figure(s); 2 Drawing Page(s)
LN.CNT 1444

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for detecting (i) one or more microorganisms or (ii) nucleic acid sequences from a prokaryotic source or an eukaryotic source in an unpurified nucleic acid-containing test sample comprising

(a) labeling the nucleic acids in the test sample,

(b) contacting, under hybridization conditions, the labeled hybridizable nucleic acid and one or more immobilized hybridizable nucleic acid probes comprising (i) one or more known microorganisms or (ii) sequences from eukaryotic or prokaryotic sources, to form hybridized labeled nucleic acids, and

(d) assaying for the hybridized nucleic acids by detecting the label. The method can be used to detect genetic disorders, e.g., sickle-cell anemia.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=>

=> d his

(FILE 'HOME' ENTERED AT 14:25:34 ON 11 JAN 2005)

FILE 'BIOSIS, MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 14:25:52 ON 11 JAN 2005

L1 132 S UV (10A) NUCLEIC ACID?(15A) IMMOBILI?
L2 30 S L1 AND POLYSTYRENE
L3 2 S L2 AND TAIL? (4A) OLIGONUCLEOTIDE?

=> s l2 not l3

L4 28 L2 NOT L3

=> dup rem l4

PROCESSING COMPLETED FOR L4

L5 25 DUP REM L4 (3 DUPLICATES REMOVED)

=> d l5 bib abs 1-25

L5 ANSWER 1 OF 25 USPATFULL on STN
AN 2004:320925 USPATFULL
TI Dynamic action reference tools
IN Roberts, Radclyffe L., Seattle, WA, UNITED STATES
De Figuereido, Paul, Kenmore, WA, UNITED STATES
PI US 2004253578 A1 20041216
AI US 2004-474298 A1 20040720 (10)
WO 2002-US10566 20020402
PRAI US 2001-281133P 20010402 (60)
US 2001-281342P 20010403 (60)
DT Utility
FS APPLICATION
LREP JONES DAY, 222 EAST 41ST ST, NEW YORK, NY, 10017
CLMN Number of Claims: 41
ECL Exemplary Claim: 1
DRWN 6 Drawing Page(s)
LN.CNT 7518

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides Dynamic Action Reference Tools, or DARTs, and methods of making and using DARTs. DARTs can be used, for example, for the isolation and analysis of nucleic acids, polypeptides, and the like, for regulating biological activities and investigating inter-molecular interactions, and the like. A DART is a molecule that includes a Molecular Shaft covalently linked to a Linkage Polypeptide that is covalently linked to a Molecular Point. DARTs, and DART libraries, can be formed and manipulated in vivo or in vitro. DARTs can be purified, and portions of DARTs can be exchanged with portions of other DARTs.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 2 OF 25 USPATFULL on STN
AN 2004:280286 USPATFULL
TI Unit for biochemical analysis
IN Kuruma, Koji, Minami-ashigara-shi, JAPAN
Inomata, Hiroko, Asaka-shi, JAPAN
PA FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)
PI US 2004219586 A1 20041104
AI US 2004-808451 A1 20040325 (10)
PRAI JP 2003-90369 20030328
DT Utility
FS APPLICATION
LREP SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., SUITE 800,

WASHINGTON, DC, 20037

CLMN Number of Claims: 17

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1762

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a unit for biochemical analysis wherein the unit comprises a substrate formed of a material having properties of attenuating radiation and/or light and formed with a plurality of holes, and adsorptive areas are respectively formed inside the plurality of holes, thereby forming a plurality of adsorptive areas, and wherein covalently binding functional groups are introduced onto the adsorptive areas. The present invention enables to provide a unit for biochemical analysis which is capable of carrying out strong and efficient immobilization of specific binding substances and can obtain specific and high signals by controlling the direction of the immobilized specific binding substances.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 3 OF 25 USPATFULL on STN

AN 2004:280223 USPATFULL

TI Nucleic acid sensor molecules and methods of using same

IN Stanton, Martin, Stow, MA, UNITED STATES

Epstein, David, Belmont, MA, UNITED STATES

Hamaguchi, Nobuko, Framingham, MA, UNITED STATES

Kurz, Markus, Newton, MA, UNITED STATES

Keefe, Tony, Cambridge, MA, UNITED STATES

Wilson, Charles, Concord, MA, UNITED STATES

Grate, Dilara, Waltham, MA, UNITED STATES

Marshall, Kristin A., Arlington, MA, UNITED STATES

McCauley, Thomas G., Somerville, MA, UNITED STATES

Kurz, Jeffrey C., Somerville, MA, UNITED STATES

PI US 2004219523 A1 20041104

AI US 2002-215982 A1 20020809 (10)

RLI Continuation-in-part of Ser. No. US 2001-952680, filed on 13 Sep 2001, ABANDONED

PRAI US 2001-311378P 20010809 (60)

US 2001-313932P 20010821 (60)

US 2001-338186P 20011113 (60)

US 2002-349959P 20020118 (60)

US 2002-364486P 20020313 (60)

US 2002-367991P 20020325 (60)

US 2002-369887P 20020404 (60)

US 2002-376744P 20020501 (60)

US 2002-385097P 20020531 (60)

US 2000-232454P 20000913 (60)

DT Utility

FS APPLICATION

LREP Ivor R. Elrifi, Mintz, Levin, Cohn, Ferris,, Glovsky and Popeo, P.C., One Financial Center, Boston, MA, 02111

CLMN Number of Claims: 99

ECL Exemplary Claim: 1

DRWN 90 Drawing Page(s)

LN.CNT 12038

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods for engineering a nucleic acid sensor molecule are provided. Biosensors comprise a plurality of nucleic acid sensor molecules labeled with a first signaling moiety and a second signaling moiety. The nucleic acid sensor molecules recognizes target molecules which do not naturally bind to DNA. Binding of a target molecule to the sensor molecules triggers a change in the proximity of the signaling moieties which leads

to a change in the optical properties of the nucleic acid sensor molecules on the biosensor. Reagents and systems for performing the method are also provided. The method is useful in diagnostic applications and drug optimization.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 4 OF 25 USPATFULL on STN
AN 2004:267764 USPATFULL
TI Epoxide polymer surfaces
IN Swan, Dale G., St. Louis Park, MN, UNITED STATES
Swanson, Melvin J., Carver, MN, UNITED STATES
PA SurModics, Inc., Eden Prairie, MN (U.S. corporation)
PI US 2004209305 A1 20041021
AI US 2004-844667 A1 20040512 (10)
RLI Continuation of Ser. No. US 2000-521545, filed on 9 Mar 2000, GRANTED, Pat. No. US 6762019 Continuation-in-part of Ser. No. US 1999-227913, filed on 8 Jan 1999, GRANTED, Pat. No. US 6465178 Continuation-in-part of Ser. No. US 1997-940213, filed on 30 Sep 1997, GRANTED, Pat. No. US 5858653
DT Utility
FS APPLICATION
LREP Attention of Mark T. Skoog, MERCHANT & GOULD P.C., P.O. Box 2903, Minneapolis, MN, 55402-0903
CLMN Number of Claims: 28
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1093

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Method and reagent composition for covalent attachment of target molecules, such as nucleic acids, onto the surface of a substrate. The reagent composition includes epoxide groups capable of covalently binding to the target molecule. Optionally, the composition can contain photoreactive groups for use in attaching the reagent composition to the surface. The reagent composition can be used to provide activated slides for use in preparing microarrays of nucleic acids.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 5 OF 25 USPATFULL on STN
AN 2004:31088 USPATFULL
TI Method for immobilizing nucleic acids
IN Ozkan, Derva, Berlin, GERMANY, FEDERAL REPUBLIC OF
PI US 2004023226 A1 20040205
AI US 2003-220331 A1 20030305 (10)
WO 2001-DE812 20010227
PRAI DE 2000-10010376 20000228
DE 2000-10053393 20001020
DT Utility
FS APPLICATION
LREP MCGLEW & TUTTLE, PC, SCARBOROUGH STATION, SCARBOROUGH, NY, 10510
CLMN Number of Claims: 13
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 607

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to a method for immobilizing nucleic acids on one of the surfaces of a non-porous organic polymeric material which does not carry any primary and/or secondary amine groups. The inventive method comprises the following steps: (a) an aqueous solution containing a nucleic acid as well as a dissolved salt is prepared, whereby the cation of the salt is selected from the group comprised of sodium,

magnesium and of mixtures of these cations; (b) the solution mentioned in step (a) is brought into contact with the surface of the polymeric material, and; (c) the surface of the polymeric material, which is in contact with the solution, is irradiated with UV light after step (b) or simultaneously thereto.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 6 OF 25 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:610753 CAPLUS
 DN 139:146216
 TI Method for immobilizing biomolecule to carrier by UV irradiation
 IN Oda, Ryuichi; Kimura, Naoki
 PA Nisshinbo Industries, Inc., Japan
 SO PCT Int. Appl., 37 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 2003065040	A1	20030807	WO 2003-JP1006	20030131	
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW		
	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
	JP 2003294751	A2	20031015	JP 2002-242456	20020822	
	EP 1471355	A1	20041027	EP 2003-703128	20030131	
	R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK		

PRAI JP 2002-25622 A 20020201
 JP 2002-242456 A 20020822
 WO 2003-JP1006 W 20030131

AB A method is provided for immobilizing a biomol. (e.g., nucleic acid, protein, carbohydrate, antigen, antibody, peptide, enzyme) to a carrier (e.g., synthetic resin, natural resin). The method comprises spotting a solution of a nucleic acid on a carrier consisting of a synthetic resin (e.g., polycarbonate, polymethylmethacrylate, acrylonitrile-butadiene-styrene copolymer, polyethylene, polyethylene terephthalate, polyphenol, **polystyrene**, polyacrylonitrile, polyvinyl chloride, aramid), drying the solution, and irradiating the carrier with UV light containing a component of the wavelength of 280nm, preferably in a dose of 100mJ/cm² or more.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 25 USPATFULL on STN
 AN 2003:165936 USPATFULL
 TI Epoxide polymer surfaces
 IN Swan, Dale G., St. Louis Park, MN, UNITED STATES
 Swanson, Melvin J., Carver, MN, UNITED STATES
 PI US 2003113792 A1 20030619
 US 6762019 B2 20040713
 AI US 2000-521545 A1 20000309 (9)
 RLI Continuation-in-part of Ser. No. US 1999-227913, filed on 8 Jan 1999, GRANTED, Pat. No. US 6465178 Continuation-in-part of Ser. No. US

1997-940213, filed on 30 Sep 1997, GRANTED, Pat. No. US 5858653
DT Utility
FS APPLICATION
LREP MERCHANT & GOULD PC, P.O. BOX 2903, MINNEAPOLIS, MN, 55402-0903
CLMN Number of Claims: 28
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1094

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Method and reagent composition for covalent attachment of target molecules, such as nucleic acids, onto the surface of a substrate. The reagent composition includes epoxide groups capable of covalently binding to the target molecule. Optionally, the composition can contain photoreactive groups for use in attaching the reagent composition to the surface. The reagent composition can be used to provide activated slides for use in preparing microarrays of nucleic acids.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 8 OF 25 USPATFULL on STN
AN 2003:140432 USPATFULL
TI Methods for immobilizing molecules to a solid phase and uses thereof
IN Gagna, Claude, Old Westbury, NY, UNITED STATES
PI US 2003096273 A1 20030522
AI US 2002-209849 A1 20020731 (10)
PRAI US 2001-308936P 20010731 (60)
DT Utility
FS APPLICATION
LREP FULBRIGHT & JAWORSKI, LLP, 666 FIFTH AVE, NEW YORK, NY, 10103-3198
CLMN Number of Claims: 45
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1842

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Various methodologies for the immobilization of molecules such, as multistranded nucleic acid molecules, are described. The methodologies include activation of solid supports, as well as treatment of, e.g. termini of nucleic acid molecules to render them more receptive to immobilization on surfaces.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 9 OF 25 USPATFULL on STN
AN 2003:112863 USPATFULL
TI Methods and compositions for enhancing sensitivity in the analysis of biological-based assays
IN Van Ness, Jeffrey, Seattle, WA, UNITED STATES
Tabone, John C., Bothell, CA, UNITED STATES
Howbert, J. Jeffry, Bellevue, WA, UNITED STATES
Mulligan, John T., Seattle, WA, UNITED STATES
PA QIAGEN Genomics, Inc., Bothell, WA (U.S. corporation)
PI US 2003077595 A1 20030424
US 6815212 B2 20041109
AI US 2001-467 A1 20011024 (10)
RLI Continuation of Ser. No. US 1999-457048, filed on 7 Dec 1999, ABANDONED
Continuation of Ser. No. US 1997-898501, filed on 22 Jul 1997, GRANTED,
Pat. No. US 6027890 Continuation-in-part of Ser. No. US 1997-787521,
filed on 22 Jan 1997, ABANDONED
PRAI US 1996-10436P 19960123 (60)
US 1996-15402P 19960321 (60)
DT Utility
FS APPLICATION

LREP SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300,
SEATTLE, WA, 98104-7092
CLMN Number of Claims: 61
ECL Exemplary Claim: 1
DRWN 36 Drawing Page(s)
LN.CNT 5954

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods are provided for detecting the binding of a first member to a second member of a ligand pair, comprising the steps of (a) combining a set of first tagged members with a biological sample which may contain one or more second members, under conditions, and for a time sufficient to permit binding of a first member to a second member, wherein said tag is correlative with a particular first member and detectable by non-fluorescent spectrometry, or potentiometry, (b) separating bound first and second members from unbound members, (c) cleaving the tag from the tagged first member, and (d) detecting the tag by non-fluorescent spectrometry, or potentiometry, and therefrom detecting the binding of the first member to the second member .

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 10 OF 25 USPATFULL on STN
AN 2003:93794 USPATFULL
TI Nucleic acid sensor molecules
IN Usman, Nassim, Lafayette, CO, UNITED STATES
McSwiggen, James A., Boulder, CO, UNITED STATES
Zinnen, Shawn, Denver, CO, UNITED STATES
Seiwert, Scott, Lyons, CO, UNITED STATES
Haeberli, Peter, Berthoud, CO, UNITED STATES
Chowrira, Bharat, Broomfield, CO, UNITED STATES
Blatt, Lawrence, Boulder, CO, UNITED STATES
Vaish, Narendra K., Boulder, CO, UNITED STATES
PI US 2003065155 A1 20030403
AI US 2002-56761 A1 20020123 (10)
RLI Continuation-in-part of Ser. No. US 2001-992160, filed on 5 Nov 2001,
PENDING Continuation-in-part of Ser. No. US 2001-877526, filed on 8 Jun
2001, PENDING Continuation-in-part of Ser. No. US 2001-800594, filed on
6 Mar 2001, PENDING
PRAI WO 2001-US7163 20010306
US 2000-187128P 20000306 (60)
DT Utility
FS APPLICATION
LREP MCDONNELL BOEHNNEN HULBERT & BERGHOFF, 300 SOUTH WACKER DRIVE, SUITE
3200, CHICAGO, IL, 60606
CLMN Number of Claims: 11
ECL Exemplary Claim: 1
DRWN 55 Drawing Page(s)
LN.CNT 5302

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Nucleic acid sensor molecules and methods are provided for the detection and amplification of signaling agents using enzymatic nucleic acid constructs, including hammerhead enzymatic nucleic acid molecules, inozymes, G-cleaver enzymatic nucleic acid molecules, zinzymes, amberzymes and DNAzymes. Also provided are kits for detection and amplification. The nucleic acid sensor molecules, methods and kits provided herein can be used in diagnostics, nucleic acid circuits, nucleic acid computers, therapeutics, target validation, target discovery, drug optimization, single nucleotide polymorphism (SNP) detection, single nucleotide polymorphism (SNP) scoring, and proteome scoring as well as other uses described herein.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 11 OF 25 USPATFULL on STN
 AN 2003:93034 USPATFULL
 TI Integrated systems and methods for diversity generation and screening
 IN Bass, Steven H., Hillsborough, CA, UNITED STATES
 Davis, S. Christopher, San Francisco, CA, UNITED STATES
 Patten, Phillip A., Menlo Park, CA, UNITED STATES
 Tobin, Matthew, San Jose, CA, UNITED STATES
 Minshull, Jeremy, Menlo Park, CA, UNITED STATES
 Welch, Mark, Fremont, CA, UNITED STATES
 Gustafsson, Claes, Belmont, CA, UNITED STATES
 Carr, Brian, Fremont, CA, UNITED STATES
 Jenne, Stephane, Burlingame, CA, UNITED STATES
 Raillard, Sun Ai, Mountain View, CA, UNITED STATES
 Cramer, Andreas, Reinach, SWITZERLAND
 Stemmer, Willem P.C., Los Gatos, CA, UNITED STATES
 Emig, Robin, Redwood City, CA, UNITED STATES
 Longchamp, Pascal, East Palo Alto, CA, UNITED STATES
 Goldman, Stanley, Walnut Creek, CA, UNITED STATES
 Giver, Lorraine J., Santa Clara, CA, UNITED STATES
 Affholter, Joseph A., Lake Village Zephyr Cove, NV, UNITED STATES
 PA Maxygen, Inc. (U.S. corporation)
 PI US 2003064393 A1 20030403
 AI US 2002-155739 A1 20020523 (10)
 RLI Continuation of Ser. No. US 2001-760010, filed on 10 Jan 2001, PENDING
 PRAI US 2000-175551P 20000111 (60)
 US 2000-213947P 20000623 (60)
 DT Utility
 FS APPLICATION
 LREP QUINE INTELLECTUAL PROPERTY LAW GROUP, P.C., P O BOX 458, ALAMEDA, CA,
 94501
 CLMN Number of Claims: 299
 ECL Exemplary Claim: 1
 DRWN 40 Drawing Page(s)
 LN.CNT 8296
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB Integrated systems and methods for diversity generation and screening
 are provided. The systems use common fluid and array handling components
 to provide nucleic acid diversification, transcription, translation,
 product screening and subsequent diversification reactions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 12 OF 25 USPATFULL on STN
 AN 2003:78464 USPATFULL
 TI Integrated systems and methods for diversity generation and screening
 IN Bass, Steven H., Hillsborough, CA, UNITED STATES
 Davis, S. Christopher, San Francisco, CA, UNITED STATES
 Patten, Phillip A., Menlo Park, CA, UNITED STATES
 Tobin, Matthew, San Jose, CA, UNITED STATES
 Minshull, Jeremy, Menlo Park, CA, UNITED STATES
 Welch, Mark, Fremont, CA, UNITED STATES
 Gustafsson, Claus, Belmont, CA, UNITED STATES
 Carr, Brian, Fremont, CA, UNITED STATES
 Jenne, Stephane, Burlingame, CA, UNITED STATES
 Raillard, Sun Ai, Mountain View, CA, UNITED STATES
 Cramer, Andreas, Reinach, SWITZERLAND
 Stemmer, Willem P.C., Los Gatos, CA, UNITED STATES
 Emig, Robin, Redwood City, CA, UNITED STATES
 Longchamp, Pascal, East Palo Alto, CA, UNITED STATES
 Goldman, Stanley, Walnut Creek, CA, UNITED STATES
 Giver, Lorraine J., Santa Clara, CA, UNITED STATES

Affholter, Joseph A., Lake Village Zephyr Cove, NV, UNITED STATES
PA Maxygen, Inc. (U.S. corporation)
PI US 2003054384 A1 20030320
AI US 2002-154939 A1 20020523 (10)
RLI Continuation of Ser. No. US 2001-760010, filed on 10 Jan 2001, PENDING
PRAI US 2000-175551P 20000111 (60)
US 2000-213947P 20000623 (60)
DT Utility
FS APPLICATION
LREP QUINE INTELLECTUAL PROPERTY LAW GROUP, P.C., P O BOX 458, ALAMEDA, CA,
94501
CLMN Number of Claims: 299
ECL Exemplary Claim: 1
DRWN 40 Drawing Page(s)
LN.CNT 8296
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Integrated systems and methods for diversity generation and screening
are provided. The systems use common fluid and array handling components
to provide nucleic acid diversification, transcription, translation,
product screening and subsequent diversification reactions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 13 OF 25 USPATFULL on STN
AN 2003:78463 USPATFULL
TI Integrated systems and methods for diversity generation and screening
IN Bass, Steven H., Hillsborough, CA, UNITED STATES
Davis, S. Christopher, San Francisco, CA, UNITED STATES
Patten, Phillip A., Menlo Park, CA, UNITED STATES
Tobin, Matthew, San Jose, CA, UNITED STATES
Minshull, Jeremy, Menlo Park, CA, UNITED STATES
Welch, Mark, Fremont, CA, UNITED STATES
Gustafsson, Claes, Belmont, CA, UNITED STATES
Carr, Brian, Fremont, CA, UNITED STATES
Jenne, Stephane, Burlingame, CA, UNITED STATES
Raillard, Sun Ai, Mountain View, CA, UNITED STATES
Cramer, Andreas, Reinach, SWITZERLAND
Stemmer, Willem P.C., Los Gatos, CA, UNITED STATES
Emig, Robin, Redwood City, CA, UNITED STATES
Longschamp, Pascal, East Palo Alto, CA, UNITED STATES
Goldman, Stanley, Walnut Creek, CA, UNITED STATES
Giver, Lorraine J., Santa Clara, CA, UNITED STATES
Affholter, Joseph A., Lake Village Zephyr Cove, NV, UNITED STATES
PA Maxygen, Inc. (U.S. corporation)
PI US 2003054383 A1 20030320
AI US 2002-154936 A1 20020523 (10)
RLI Continuation of Ser. No. US 2001-760010, filed on 10 Jan 2001, PENDING
PRAI US 2000-175551P 20000111 (60)
US 2000-213947P 20000623 (60)
DT Utility
FS APPLICATION
LREP QUINE INTELLECTUAL PROPERTY LAW GROUP, P.C., P O BOX 458, ALAMEDA, CA,
94501
CLMN Number of Claims: 299
ECL Exemplary Claim: 1
DRWN 40 Drawing Page(s)
LN.CNT 8302
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Integrated systems and methods for diversity generation and screening
are provided. The systems use common fluid and array handling components
to provide nucleic acid diversification, transcription, translation,
product screening and subsequent diversification reactions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 14 OF 25 USPATFULL on STN
AN 2003:10600 USPATFULL
TI Nucleic acid sensor molecules
IN Usman, Nassim, Lafayette, CO, UNITED STATES
McSwiggen, James A., Boulder, CO, UNITED STATES
Zinnen, Shawn, Denver, CO, UNITED STATES
Seiwert, Scott, Lyons, CO, UNITED STATES
Haeberli, Peter, Berthoud, CO, UNITED STATES
Chowrira, Bharat, Broomfield, CO, UNITED STATES
Blatt, Lawrence, Boulder, CO, UNITED STATES
Vaish, Narendra, Boulder, CO, UNITED STATES
PI US 2003008295 A1 20030109
AI US 2001-992160 A1 20011105 (9)
RLI Continuation-in-part of Ser. No. US 2001-877526, filed on 8 Jun 2001,
PENDING Continuation-in-part of Ser. No. US 2001-800594, filed on 6 Mar
2001, PENDING
PRAI WO 2001-US7163 20010306
US 2000-187128P 20000306 (60)
DT Utility
FS APPLICATION
LREP MCDONNELL BOEHNEN HULBERT & BERGHOFF, 300 SOUTH WACKER DRIVE, SUITE
3200, CHICAGO, IL, 60606
CLMN Number of Claims: 11
ECL Exemplary Claim: 1
DRWN 42 Drawing Page(s)
LN.CNT 4858

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Nucleic acid sensor molecules and methods are disclosed for the
detection and amplification of signaling agents using enzymatic nucleic
acid constructs, including hammerhead enzymatic nucleic acid molecules,
inozymes, G-cleaver enzymatic nucleic acid molecules, zinzymes,
amberzymes and DNAzymes; kits for detection and amplification; use in
diagnostics, nucleic acid circuits, nucleic acid computers,
therapeutics, target validation, target discovery, drug optimization,
SNP detection, SNP scoring, proteome scoring and other uses are
disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 15 OF 25 USPATFULL on STN
AN 2002:191503 USPATFULL
TI Nucleic acid sensor molecules
IN Usman, Nassim, Lafayette, CO, UNITED STATES
McSwiggen, James A., Boulder, CO, UNITED STATES
Zinnen, Shawn, Denver, CO, UNITED STATES
Seiwert, Scott, Lyons, CO, UNITED STATES
Haeberli, Peter, Berthoud, CO, UNITED STATES
Chowrira, Bharat, Broomfield, CO, UNITED STATES
Blatt, Lawrence, Boulder, CO, UNITED STATES
Vaish, Narendra K., Boulder, CO, UNITED STATES
PI US 2002102568 A1 20020801
AI US 2001-877526 A1 20010608 (9)
PRAI WO 2001-US7163 20010306
US 2000-187128P 20000306 (60)
DT Utility
FS APPLICATION
LREP MCDONNELL BOEHNEN HULBERT & BERGHOFF, 300 SOUTH WACKER DRIVE, SUITE
3200, CHICAGO, IL, 60606
CLMN Number of Claims: 54

ECL Exemplary Claim: 1
DRWN 40 Drawing Page(s)
LN.CNT 4865

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Nucleic acid sensor molecules and methods are disclosed for the detection and amplification of signaling agents using enzymatic nucleic acid constructs, including hammerhead enzymatic nucleic acid molecules, inozymes, G-cleaver enzymatic nucleic acid molecules, zinzymes, amberzymes and DNazymes; kits for detection and amplification; use in diagnostics, nucleic acid circuits, nucleic acid computers, therapeutics, target validation, target discovery, drug optimization, SNP detection, SNP scoring, proteome scoring and other uses are disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 16 OF 25 USPATFULL on STN
AN 2002:63679 USPATFULL
TI Compositions and methods for enhancing hybridization and priming specificity
IN Van Ness, Jeffrey, Seattle, WA, United States
Tabone, John C., Bothell, WA, United States
Garrison, Lori K., Seattle, WA, United States
PA QIAGEN Genomics, Inc., Bothell, WA, United States (U.S. corporation)
PI US 6361940 B1 20020326
AI US 1998-53831 19980401 (9)
RLI Continuation-in-part of Ser. No. US 1997-2051, filed on 31 Dec 1997, now abandoned Continuation-in-part of Ser. No. US 1997-933924, filed on 23 Sep 1997, now abandoned
PRAI US 1996-26621P 19960924 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Riley, Jezia
LREP Seed Intellectual Property Law Group PLLC
CLMN Number of Claims: 97
ECL Exemplary Claim: 1
DRWN 33 Drawing Figure(s); 30 Drawing Page(s)
LN.CNT 6301

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions and methods are provided for increasing the specificity of a probe nucleic acid for a target nucleic acid in a hybridization solution. An abasic residue, deoxyNebularine residue, or a hybotrope is used to increase specificity. A method is provided for identifying useful hybotropes, including salts, water miscible organic solvents, aprotic solvents and organic solvents, on the basis of enthalpy considerations. Hybotropic hybridization and modified oligonucleotides may be used in amplification reactions, such as PCR, sequence analysis methods, and genomic screening methods.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 17 OF 25 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1
AN 2001:636254 CAPLUS
DN 135:207885
TI Method for **immobilizing nucleic acids** onto polymers using **UV** light
IN Oezkan, Derya
PA Origen Biotechnology A.-G., Germany
SO PCT Int. Appl., 28 pp.
CODEN: PIXXD2
DT Patent
LA German

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001062963	A2	20010830	WO 2001-DE812	20010227
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	DE 10053393	A1	20011220	DE 2000-10053393	20001020
	EP 1305444	A2	20030502	EP 2001-929225	20010227
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 2004023226	A1	20040205	US 2003-220331	20030305
PRAI	DE 2000-10010376	A	20000228		
	DE 2000-10053393	A	20001020		
	WO 2001-DE812	W	20010227		

AB The invention relates to a method for immobilizing nucleic acids on one of the surfaces of a non-porous organic polymeric material which does not carry any primary and/or secondary amine groups. The inventive method comprises the following steps: (a) an aqueous solution containing a nucleic acid as well

as a dissolved salt is prepared, whereby the cation of the salt is selected from the group comprised of sodium, magnesium and of mixts. of these cations; (b) the solution mentioned in step (a) is brought into contact with the surface of the polymeric material, and; (c) the surface of the polymeric material, which is in contact with the solution, is irradiated with UV light after step (b) or simultaneously. Nucleic acid probes are immobilized onto polymer fibers or chips; after the immobilization process the system is rinsed with a surfactant-containing solution

L5 ANSWER 18 OF 25 USPATFULL on STN

AN 2001:199911 USPATFULL

TI Integrated systems and methods for diversity generation and screening

IN Bass, Steven H., Hillsborough, CA, United States

Davis, S. Christopher, San Francisco, CA, United States

Patten, Phillip A., Menlo Park, CA, United States

Tobin, Matthew, San Jose, CA, United States

Minshull, Jeremy, Menlo Park, CA, United States

Welch, Mark, Fremont, CA, United States

Gustafsson, Claes, Belmont, CA, United States

Carr, Brian, Fremont, CA, United States

Jenne, Stephane, Burlingame, CA, United States

Raillard, Sun Ai, Mountain View, CA, United States

Crameri, Andreas, Reinach, Switzerland

Stemmer, Willem P.C., Los Gatos, CA, United States

Emig, Robin, Redwood City, CA, United States

Longchamp, Pascal, East Palo Alto, CA, United States

Goldman, Stanley, Walnut Creek, CA, United States

Giver, Lorraine J., Santa Clara, CA, United States

Affholter, Joseph A., Lake Village Zephyr Cove, NV, United States

PA Maxygen, Inc., Redwood City, CA, United States, 94063 (U.S. corporation)

PI US 2001039014 A1 20011108

AI US 2001-760010 A1 20010110 (9)

PRAI US 2000-175551P 20000111 (60)

US 2000-213947P 20000623 (60)

DT Utility

FS APPLICATION

LREP LAW OFFICES OF JONATHAN ALAN QUINE, P O BOX 458, ALAMEDA, CA, 94501
CLMN Number of Claims: 299
ECL Exemplary Claim: 1
DRWN 40 Drawing Page(s)
LN.CNT 8292

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Integrated systems and methods for diversity generation and screening are provided. The systems use common fluid and array handling components to provide nucleic acid diversification, transcription, translation, product screening and subsequent diversification reactions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 19 OF 25 USPATFULL on STN
AN 2000:31201 USPATFULL
TI Method for detection of non-denatured nucleic acid fragments
IN Ebersole, Richard C., Wilmington, DE, United States
Hendrickson, Edwin R., Hockessin, DE, United States
Payne, Mark S., Wilmington, DE, United States
Fitzpatrick-McElligott, Sandra, Rose Valley, PA, United States
Majarian, William R., Mt. Royal, NJ, United States
Rafalski, Jan A., Wilmington, DE, United States
PA E. I. du Pont de Nemours and Company, Wilmington, DE, United States (U.S. corporation)
PI US 6037127 20000314
AI US 1997-979269 19971126 (8)
RLI Continuation-in-part of Ser. No. US 1997-863265, filed on 27 May 1997, now abandoned which is a continuation of Ser. No. US 1995-530795, filed on 20 Sep 1995, now abandoned which is a continuation of Ser. No. US 1994-221769, filed on 31 Mar 1994, now abandoned
DT Utility
FS Granted
EXNAM Primary Examiner: Horlick, Kenneth R.
CLMN Number of Claims: 11
ECL Exemplary Claim: 1
DRWN 20 Drawing Figure(s); 13 Drawing Page(s)
LN.CNT 2367

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for detecting the presence of a nucleic acid analyte in a test sample is provided in which a test sample is contacted with a test strip of a chromatographic bibulous porous material which is capable of moving the test sample laterally along the test strip by capillary migration to ultimate capture by a moiety in a specific capture zone.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 20 OF 25 USPATFULL on STN
AN 2000:21384 USPATFULL
TI Methods and compositions for enhancing sensitivity in the analysis of biological-based assays
IN Ness, Jeffrey Van, Seattle, WA, United States
Tabone, John C., Bothell, WA, United States
Howbert, J. Jeffry, Bellevue, WA, United States
Mulligan, John T., Seattle, WA, United States
PA Rapigene, Inc., Bothell, WA, United States (U.S. corporation)
PI US 6027890 20000222
AI US 1997-898501 19970722 (8)
RLI Continuation-in-part of Ser. No. US 1997-787521, filed on 22 Jan 1997, now abandoned
PRAI US 1996-10436P 19960123 (60)
US 1996-15402P 19960321 (60)
DT Utility

FS Granted
EXNAM Primary Examiner: Houtteman, Scott W.
LREP Seed and Berry LLP
CLMN Number of Claims: 72
ECL Exemplary Claim: 1
DRWN 19 Drawing Figure(s); 19 Drawing Page(s)
LN.CNT 6333

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods are provided for detecting the binding of a first member to a second member of a ligand pair, comprising the steps of (a) combining a set of first tagged members with a biological sample which may contain one or more second members, under conditions, and for a time sufficient to permit binding of a first member to a second member, wherein said tag is correlative with a particular first member and detectable by non-fluorescent spectrometry, or potentiometry, (b) separating bound first and second members from unbound members, (c) cleaving the tag from the tagged first member, and (d) detecting the tag by non-fluorescent spectrometry, or potentiometry, and therefrom detecting the binding of the first member to the second member.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 21 OF 25 USPATFULL on STN
AN 1999:155449 USPATFULL
TI Methods for preparing solid supports for hybridization and reducing non-specific background
IN Van Ness, Jeffrey, Seattle, WA, United States
PA Rapigene, Inc., Bothell, WA, United States (U.S. corporation)
PI US 5994065 19991130
AI US 1996-733671 19961017 (8)
PRAI US 1995-6501P 19951018 (60)
DT Utility
FS Granted
EXNAM Primary Examiner: Marschel, Ardin H.
LREP Seed and Berry LLP
CLMN Number of Claims: 33
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1281

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods related to solid supports for binding reactions are disclosed. The present invention provides procedures for preparing solid supports, and their use in binding assays, such that non-specific background on the solid supports is reduced. The reduction of non-specific background permits the detection of low levels of specific binding which normally would be masked by the non-specific binding. The methods are applicable to a variety of target ligands and probes, including nucleic acids such as oligonucleotides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 22 OF 25 USPATFULL on STN
AN 1999:132581 USPATFULL
TI Gene detection method
IN Hashimoto, Koji, Yokohama, Japan
 Ito, Keiko, Kawasaki, Japan
 Ishimori, Yoshio, Tokyo, Japan
PA Kabushiki Kaisha Toshiba, Kawasaki, Japan (non-U.S. corporation)
PI US 5972692 19991026
AI US 1997-886161 19970630 (8)
RLI Division of Ser. No. US 1993-167113, filed on 16 Dec 1993, now patented, Pat. No. US 5776672 which is a continuation-in-part of Ser. No. US

1991-766064, filed on 27 Sep 1991, now abandoned
PRAI JP 1990-259011 19900928
JP 1991-90879 19910422
JP 1991-191868 19910731

DT Utility

FS Granted

EXNAM Primary Examiner: Campbell, Eggerton A.

LREP Oblon, Spivak, McClelland, Maier & Neustadt, P.C.

CLMN Number of Claims: 7

ECL Exemplary Claim: 1

DRWN 10 Drawing Figure(s); 5 Drawing Page(s)

LN.CNT 3248

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A single stranded nucleic acid probe having a base sequence complementary to the gene to be detected is immobilized onto the surface of an electrode or the tip of an optical fiber, and the nucleic probe is reacted with the gene sample denatured to a single stranded form, and then the nucleic acid probe hybridized with the gene is detected. In this procedure, to the reaction system consisting of the nucleic acid probe and the gene sample, a double stranded nucleic acid recognizing substance capable of binding specifically to the double stranded nucleic acid and being active electrochemically or optically is added. The detection of the nucleic acid probe is conducted by electrochemical or optical determination utilizing the electrode or optical fiber mentioned above. By this method, safer and more convenient detection of the gene is possible at a higher sensitivity even in a reduced time period.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 23 OF 25 USPATFULL on STN

AN 1999:132501 USPATFULL

TI Hybridization carrier and a process for preparing the same

IN Furuichi, Yasuhiro, Kamakura, Japan

Hikata, Mikio, Yokohama, Japan

Kuribayashi, Keiko, Yokohama, Japan

PA JSR Corporation, Tokyo, Japan (non-U.S. corporation)

PI US 5972611 19991026

AI US 1997-964448 19971104 (8)

RLI Continuation of Ser. No. US 1996-662830, filed on 12 Jun 1996, now abandoned which is a continuation of Ser. No. US 1995-437910, filed on 10 May 1995, now abandoned which is a continuation of Ser. No. US 1993-3904, filed on 13 Jan 1993, now abandoned which is a continuation of Ser. No. US 1992-888409, filed on 21 May 1992, now abandoned which is a continuation of Ser. No. US 1991-674284, filed on 21 Mar 1991, now abandoned which is a continuation of Ser. No. US 1988-288601, filed on 22 Dec 1988, now abandoned

PRAI JP 1987-329402 19871225

DT Utility

FS Granted

EXNAM Primary Examiner: Zitomer, Stephanie

LREP Oblon, Spivak, McClelland, Maier & Neustadt, P.C.

CLMN Number of Claims: 21

ECL Exemplary Claim: 1

DRWN 2 Drawing Figure(s); 1 Drawing Page(s)

LN.CNT 861

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A hybridization carrier, containing a single-stranded polynucleotide having the formula:

5'-(dN).sub.n (dT).sub.m -3',

wherein N represents admine, guanine or cytosin; T represents thymine; n

is an integer of 2 or larger; and m is an integer of 5 or larger;

the polynucleotide being immobilized by an amide bond on a surface of an organic polymers particle having a diameter of from about 0.05 μm to about 5 μm ;

the polynucleotide being immobilized at the site of a nucleotide sequence consisting of 2 or more polynucleotide which contain a primary amino residue in the polynucleotide; and

the amide bond having been formed between the primary amino residue and a carboxyl residue on the surface of the organic polymer particle.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 24 OF 25 USPATFULL on STN
AN 1998:78923 USPATFULL
TI Gene detection method
IN Hashimoto, Koji, Yokohama, Japan
Ito, Keiko, Kawasaki, Japan
Ishimori, Yoshio, Tokyo, Japan
Gotoh, Masanori, Tokyo, Japan
PA Kabushiki Kaisha Toshiba, Kawasaki, Japan (non-U.S. corporation)
PI US 5776672 19980707
AI US 1993-167113 19931216 (8)
RLI Continuation-in-part of Ser. No. US 1991-766064, filed on 27 Sep 1991
PRAI JP 1990-259011 19900928
JP 1991-90879 19910422
JP 1991-191868 19910731
DT Utility
FS Granted
EXNAM Primary Examiner: Campbell, Eggerton A.
LREP Oblon, Spivak, McClelland, Maier & Neustadt, P.C.
CLMN Number of Claims: 9
ECL Exemplary Claim: 1
DRWN 10 Drawing Figure(s); 5 Drawing Page(s)
LN.CNT 3246

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A single stranded nucleic acid probe having a base sequence complementary to the gene to be detected is immobilized onto the surface of an electrode or the tip of an optical fiber, and the nucleic probe is reacted with the gene sample denatured to a single stranded form, and then the nucleic acid probe hybridized with the gene is detected. In this procedure, to the reaction system consisting of the nucleic acid probe and the gene sample, a double stranded nucleic acid recognizing substance capable of binding specifically to the double stranded nucleic acid and being active electrochemically or optically is added. The detection of the nucleic acid probe is conducted by electrochemical or optical determination utilizing the electrode or optical fiber mentioned above. By this method, safer and more convenient detection of the gene is possible at a higher sensitivity even in a reduced time period.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 25 OF 25 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on
STN DUPLICATE 2
AN 1986:339728 BIOSIS
DN PREV198682053932; BA82:53932
TI A RAPID ELISA FOR MEASUREMENT OF ANTIBODIES TO NUCLEIC-ACID ANTIGENS USING
UV-TREATED **POLYSTYRENE** MICROPLATES.
AU ZOULI M [Reprint author]; STOLLAR B D
CS TUFTS UNIV HEALTH SCI CAMPUS, DEP BIOCHEM AND PHARMACOL, BOSTON, MASS

02111, USA

SO Journal of Immunological Methods, (1986) Vol. 90, No. 1, pp. 105-110.
CODEN: JIMMBG. ISSN: 0022-1759.

DT Article

FS BA

LA ENGLISH

ED Entered STN: 22 Aug 1986

Last Updated on STN: 22 Aug 1986

AB Pretreatment of **polystyrene** microplate wells with certain doses of UV light enhances their capacity for binding to single-stranded DNA, double stranded DNA and various synthetic polynucleotides. The use of **UV-irradiated plates to immobilize nucleic acid** antigens provides a simple, rapid, and specific ELISA for measuring anti-nucleic acid antibodies. The assay is at least as sensitive as the more complex method of precoating plates with poly(L-lysine). It is useful for detection of anti-DNA antibodies in sera of systemic lupus erythematosus patients, as well as in culture fluids of murine and human anti-DNA-secreting hybridomas.